

## APPENDIX

## Sequence Data

## Seq ID No1: DNA sequence of Fuz1

CACCCGAGCCATATGAGATCTACNCCWGCNNGNTCHGGNGARCARAAYATGATYGGNATG  
ACNCCWACNGTNATYGCNGTNCACCTACCTGGACCAGACCG

## Seq ID No2: DNA sequence of Fuz2

GGCCAGCTGCTGGGTRTANCCYTTYTTRATVAGYTCVAGNGCYTCYTGRGTYTTYTCRAT  
NCCRAAYTTYTCCCAITGYTCGGTCTGGTCCAGG

## Seq ID No 3: DNA sequence of Fuz3

CCCAGCAGCTGGCCTTYAARCARCCWTCHTCHGCNTAYGCNGCNTTYAAYAAYCGYCCWC  
CWTCHACNTGGCTBACNGCCTACGTGGTCAAGG

## Seq ID No 4: DNA sequence of Fuz4

CCGGCTTCTGCTTCTCCAGRATVAGCCAYTTNACNGCNCCRCVAGNACGTGDGARTCRA  
TNGCRATVAGRTTNGCNGCVAGDGARAANACCTTGACACGTAGGC

## Seq ID No 5: DNA sequence of Fuz5

GGAGAAGCAGAAGCCGGAYGGNGTNTTYCARGARGAYGGNCCWGTNATYCACCARGARAT  
GATYGGNGGNTTYCGNAACGCCAAGGAGGCAGATG

## Seq ID No 6: DNA sequence of Fuz6

GCTCCCAGGAAGGCTRTTNACYTGNCCTCRCARATRTCRGNGCYTCYTGTVAGNGCRAT  
VAGNACRAANGCNGTVAGDGANACATCTGCCTCCTTGGCG

## Seq ID No 7: DNA sequence of Fuz7

GCCTTCCTGGGAGCATYAAYAARGCNGGNGARTAYATYGARGCNTCHTAYATGAAYCTBC  
ARCGYCCWTAYACNGTNGCNATYGCNNGGTATGCCCTGGCC

## Seq ID No 8: DNA sequence of Fuz8

CTGGTCAGGCTCCTCCCARCGRTTRCGRTCYTTNGCNGTRTTVAGRAAYTTNCCNAGRTA  
WGGYTCYTCVAGYTTTTCATVAGGGCCAGGGCATAACC

## Seq ID No9: DNA sequence of Fuz9

GAGGAGCCTGACCAGCARCTBTAYAAAYGTNGARGCNACNTCHTAYGCNCTBCTBGCNCTB  
CTBCTBCTBAARGAYTTYGAYTCHGTGCCCCCTGTAGTGC

Seq ID No10: DNA sequence of Fuz10

GGGCCAAGGCTTGGAANACCATRAANGTNGCYTGNGTDGANCCRTANCCNCCNCCRTART  
ARCGYTGyTCRTTVAGCCANCGCACTACAGGGGGC

Seq ID No 11: DNA sequence of Fuz11

CCAAGCCTTGGCCARTAYCARACNGAYGTNCCWGAYCACAARGAYCTNAAAYATGGAYGT  
NTCCTTCCACCTCCCC

Seq ID No 12: DNA sequence of Fuz12.

CCCAGAGCCGGCCGGTTATCAGGATCCDGANCCNCCNCCNCCDGANCCNCCNCCNCCDGA  
NCCDGADGAGGGGAGGTGGAAGG

Seq ID No 13: DNA sequence of Fuz13

GGCTGATTCTCGAGAAGCAGAAGC

Seq ID No 14: DNA sequence of Fuz14

GCTTCTGCTTCTCGAGAATCAGCC

Seq ID No 15: DNA sequence of Fuz15

GCCTTCCCGGGAGCATCAACAAGGC

Seq ID No 16: DNA sequence of Fuz16

GCCTTGTTGATGCTCCCGGGAAGGC

Seq ID No 17: DNA sequence of Fuz17

GGAGCCTGATCAGCAGCTCTACAACG

Seq ID No 18: DNA sequence of Fuz18

CGTTGTAGAGCTGCTGATCAGGCTCC

Seq ID No 19: DNA sequence of Fuz19

GGGTACACCCAGCAGCTGGCC

Seq ID No 20: DNA sequence of Fuz20  
GGCCAGCTGCTGGGTGTACCC

Seq ID No 21: DNA sequence of Fuz21  
GGTGTCCAAGCTTTGGCCC

Seq ID No 22: DNA sequence of Fuz22  
GGGCCAAAGCTTGGAACACC

Seq ID No 23: DNA sequence of Fuz23  
CACCCGAGCCATATGAG

SEQ ID No 24: DNA sequence of Fuz24  
CCCAGAGCCGGCCGGTTATCAGGATCC

SEQ ID No 25 DNA sequence of Fuz25  
CCCAGAGCCGGCCGGTTAGCAGGATCC

SEQ ID No26

C3d1cys amino acid sequence expressed in *E.coli*

1	Met	Ala	Ser	Gly	Ser	Thr	Pro	Ala	Gly	Ser
11	Gly	Glu	Gln	Asn	Met	Ile	Gly	Met	Thr	Pro
21	Thr	Val	Ile	Ala	Val	His	Tyr	Leu	Asp	Gln
31	Thr	Glu	Gln	Trp	Glu	Lys	Phe	Gly	Ile	Glu
41	Lys	Arg	Gln	Glu	Ala	Leu	Glu	Leu	Ile	Lys
51	Lys	Gly	Tyr	Thr	Gln	Gln	Leu	Ala	Phe	Lys
61	Gln	Pro	Ser	Ser	Ala	Tyr	Ala	Ala	Phe	Asn
71	Asn	Arg	Pro	Pro	Ser	Thr	Trp	Leu	Thr	Ala
81	Tyr	Val	Val	Lys	Val	Phe	Ser	Leu	Ala	Ala
91	Gln	Leu	Ile	Ala	Ile	Asp	Ser	His	Val	Leu
101	Cys	Gly	Ala	Val	Lys	Trp	Leu	Ile	Leu	Glu
111	Lys	Gln	Lys	Pro	Asp	Gly	Val	Phe	Gln	Glu
121	Asp	Gly	Pro	Val	Ile	His	Gln	Glu	Met	Ile
131	Gly	Gly	Phe	Arg	Asn	Ala	Lys	Glu	Ala	Asp
141	Val	Ser	Leu	Thr	Ala	Phe	Val	Leu	Ile	Ala

151 Leu Gln Glu Ala Arg Asp Ile Cys Glu Gly  
 161 Gln Val Asn Ser Leu Pro Gly Ser Ile Asn  
 171 Lys Ala Gly Glu Tyr Ile Glu Ala Ser Tyr  
 181 Met Asn Leu Gln Arg Pro Tyr Thr Val Ala  
 191 Ile Ala Gly Tyr Ala Leu Ala Leu Met Asn  
 201 Lys Leu Glu Glu Pro Tyr Leu Gly Lys Phe  
 211 Leu Asn Thr Ala Lys Asp Arg Asn Arg Trp  
 221 Glu Glu Pro Asp Gln Gln Leu Tyr Asn Val  
 231 Glu Ala Thr Ser Tyr Ala Leu Leu Ala Leu  
 241 Leu Leu Leu Lys Asp Phe Asp Ser Val Pro  
 251 Pro Val Val Arg Trp Leu Asn Glu Gln Arg  
 261 Tyr Tyr Gly Gly Gly Tyr Gly Ser Thr Gln  
 271 Ala Thr Phe Met Val Phe Gln Ala Leu Ala  
 281 Gln Tyr Gln Thr Asp Val Pro Asp His Asp  
 291 Leu Asn Met Asp Val Ser Phe His Leu Pro  
 301 Ser Ser Gly Ser Glu Glu Phe Cys

## SEQ ID No 27

(C3d) 3 amino acid sequence expressed in *E.coli*

1 Met Ala Ser Gly Ser Thr Pro Ala Gly Ser  
 11 Gly Glu Gln Asn Met Ile Gly Met Thr Pro  
 21 Thr Val Ile Ala Val His Tyr Leu Asp Gln  
 31 Thr Glu Gln Trp Glu Lys Phe Gly Ile Glu  
 41 Lys Arg Gln Glu Ala Leu Glu Leu Ile Lys  
 52 Lys Gly Tyr Thr Gln Gln Leu Ala Phe Lys  
 62 Gln Pro Ser Ser Ala Tyr Ala Ala Phe Asn  
 72 Asn Arg Pro Pro Ser Thr Trp Leu Thr Ala  
 82 Tyr Val Val Lys Val Phe Ser Leu Ala Ala  
 91 Gln Leu Ile Ala Ile Asp Ser His Val Leu  
 102 Cys Gly Ala Val Lys Trp Leu Ile Leu Glu  
 112 Lys Gln Lys Pro Asp Gly Val Phe Gln Glu  
 122 Asp Gly Pro Val Ile His Gln Glu Met Ile  
 132 Gly Gly Phe Arg Asn Ala Lys Glu Ala Asp  
 141 Val Ser Leu Thr Ala Phe Val Leu Ile Ala  
 152 Leu Gln Glu Ala Arg Asp Ile Cys Glu Gly

162 Gln Val Asn Ser Leu Pro Gly Ser Ile Asn  
172 Lys Ala Gly Glu Tyr Ile Glu Ala Ser Tyr  
182 Met Asn Leu Gln Arg Pro Tyr Thr Val Ala  
191 Ile Ala Gly Tyr Ala Leu Ala Leu Met Asn  
202 Lys Leu Glu Glu Pro Tyr Leu Gly Lys Phe  
212 Leu Asn Thr Ala Lys Asp Arg Asn Arg Trp  
222 Glu Glu Pro Asp Gln Gln Leu Tyr Asn Val  
232 Glu Ala Thr Ser Tyr Ala Leu Leu Ala Leu  
241 Leu Leu Leu Lys Asp Phe Asp Ser Val Pro  
252 Pro Val Val Arg Trp Leu Asn Glu Gln Arg  
262 Tyr Tyr Gly Gly Gly Tyr Gly Ser Thr Gln  
272 Ala Thr Phe Met Val Phe Gln Ala Leu Ala  
282 Gln Tyr Gln Thr Asp Val Pro Asp His Asp  
292 Leu Asn Met Asp Val Ser Phe His Leu Pro  
301 Ser Ser Gly Ser Gly Gly Gly Gly Ser Gly  
311 Gly Gly Gly Ser Gly Ser Thr Pro Ala Gly  
321 Ser Gly Glu Gln Asn Met Ile Gly Met Thr  
331 Pro Thr Val Ile Ala Val His Tyr Leu Asp  
341 Gln Thr Glu Gln Trp Glu Lys Phe Gly Ile  
351 Glu Lys Arg Gln Glu Ala Leu Glu Leu Ile  
361 Lys Lys Gly Tyr Thr Gln Gln Leu Ala Phe  
371 Lys Gln Pro Ser Ser Ala Tyr Ala Ala Phe  
381 Asn Asn Arg Pro Pro Ser Thr Trp Leu Thr  
391 Ala Tyr Val Val Lys Val Phe Ser Leu Ala  
401 Ala Gln Leu Ile Ala Ile Asp Ser His Val  
411 Leu Cys Gly Ala Val Lys Trp Leu Ile Leu  
421 Glu Lys Gln Lys Pro Asp Gly Val Phe Gln  
431 Glu Asp Gly Pro Val Ile His Gln Glu Met  
441 Ile Gly Gly Phe Arg Asn Ala Lys Glu Ala  
451 Asp Val Ser Leu Thr Ala Phe Val Leu Ile  
461 Ala Leu Gln Glu Ala Arg Asp Ile Cys Glu  
471 Gly Gln Val Asn Ser Leu Pro Gly Ser Ile  
481 Asn Lys Ala Gly Glu Tyr Ile Glu Ala Ser  
491 Tyr Met Asn Leu Gln Arg Pro Tyr Thr Val  
501 Ala Ile Ala Gly Tyr Ala Leu Ala Leu Met  
511 Asn Lys Leu Glu Glu Pro Tyr Leu Gly Lys

521 Phe Leu Asn Thr Ala Lys Asp Arg Asn Arg  
531 Trp Glu Glu Pro Asp Gln Gln Leu Tyr Asn  
541 Val Glu Ala Thr Ser Tyr Ala Leu Leu Ala  
551 Leu Leu Leu Leu Lys Asp Phe Asp Ser Val  
561 Pro Pro Val Val Arg Trp Leu Asn Glu Gln  
571 Arg Tyr Tyr Gly Gly Gly Tyr Gly Ser Thr  
581 Gln Ala Thr Phe Met Val Phe Gln Ala Leu  
591 Ala Gln Tyr Gln Thr Asp Val Pro Asp His  
601 Asp Leu Asn Met Asp Val Ser Phe His Leu  
611 Pro Ser Ser Gly Ser Gly Gly Gly Gly Ser  
621 Gly Gly Gly Gly Ser Gly Ser Thr Pro Ala  
631 Gly Ser Gly Glu Gln Asn Met Ile Gly Met  
641 Thr Pro Thr Val Ile Ala Val His Tyr Leu  
651 Asp Gln Thr Glu Gln Trp Glu Lys Phe Gly  
661 Ile Glu Lys Arg Gln Glu Ala Leu Glu Leu  
671 Ile Lys Lys Gly Tyr Thr Gln Gln Leu Ala  
681 Phe Lys Gln Pro Ser Ser Ala Tyr Ala Ala  
691 Phe Asn Asn Arg Pro Pro Ser Thr Trp Leu  
701 Thr Ala Tyr Val Val Lys Val Phe Ser Leu  
711 Ala Ala Gln Leu Ile Ala Ile Asp Ser His  
721 Val Leu Cys Gly Ala Val Lys Trp Leu Ile  
731 Leu Glu Lys Gln Lys Pro Asp Gly Val Phe  
741 Gln Glu Asp Gly Pro Val Ile His Gln Glu  
751 Met Ile Gly Gly Phe Arg Asn Ala Lys Glu  
761 Ala Asp Val Ser Leu Thr Ala Phe Val Leu  
771 Ile Ala Leu Gln Glu Ala Arg Asp Ile Cys  
781 Glu Gly Gln Val Asn Ser Leu Pro Gly Ser  
791 Ile Asn Lys Ala Gly Glu Tyr Ile Glu Ala  
801 Ser Tyr Met Asn Leu Gln Arg Pro Tyr Thr  
811 Val Ala Ile Ala Gly Tyr Ala Leu Ala Leu  
821 Met Asn Lys Leu Glu Glu Pro Tyr Leu Gly  
831 Lys Phe Leu Asn Thr Ala Lys Asp Arg Asn  
841 Arg Trp Glu Glu Pro Asp Gln Gln Leu Tyr  
851 Asn Val Glu Ala Thr Ser Tyr Ala Leu Leu  
861 Ala Leu Leu Leu Leu Lys Asp Phe Asp Ser  
871 Val Pro Pro Val Val Arg Trp Leu Asn Glu

881 Gln Arg Tyr Tyr Gly Gly Gly Tyr Gly Ser  
891 Thr Gln Ala Thr Phe Met Val Phe Gln Ala  
901 Leu Ala Gln Tyr Gln Thr Asp Val Pro Asp  
911 His Asp Leu Asn Met Asp Val Ser Phe His  
921 Leu Pro Ser Ser Gly Ser Glu Glu Phe

SEQ. ID No 28  
TATGGCTAGCG

SEQ. ID No 29  
ACCGATCGCCTAG

Seq ID No 30: DNA sequence of PCR forward primer

GAATTCCTAGCTTGCTTG

Seq ID No 31: DNA sequence of PCR reverse primer

TCTAGAGTCGACCAGAC

Seq ID No 32 DNA sequence of pBC66-01

1 AAATCAATCT AAAGTATATA TGAGTAACT TGGTCTGACA GTTACCAATG  
50  
51 CTTAATCAGT GAGGCACCTA TCTCAGCGAT CTGTCTATTT CGTTCATCCA  
100  
101 TAGTTGCCTG ACTCCCCGTC GTGTAGATAA CTACGATACG GGAGGGCTTA  
150  
151 CCATCTGGCC CCAGTGCTGC AATGATACCG CGAGACCCAC GCTCACCGGC  
200  
201 TCCAGATTTA TCAGCAATAA ACCAGCCAGC CGGAAGGGCC GAGCGCAGAA  
250  
251 GTGGTCCTGC AACTTTATCC GCCTCCATCC AGTCTATTAA TTGTTGCCGG  
300

301 GAAGCTAGAG TAAGTAGTTC GCCAGTTAAT AGTTTGCGCA ACGTTGTTGC  
350  
351 CATTGCTACA GGCATCGTGG TGTCACGCTC GTCGTTTGGT ATGGCTTCAT  
400  
401 TCAGCTCCGG TTCCCAACGA TCAAGGCGAG TTACATGATC CCCCATGTTG  
450  
451 TGCAAAAAAG CGGTTAGCTC CTTCGGTCCT CCGATCGTTG TCAGAAGTAA  
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CCAAACTCATCAATGTATCT  
TATCATGTCTGGTCGACTCTAGAACTAGTAACGACGATCAAGTGGGCATCTGGAGCGGCC  
CGGCACCGCAGTGCATCATC  
CCGAACAAATAATAAAAGCttATCATCGATAAGCTGTCAAACATGAGAATT

Seq ID No 33

CCAGCAGTGGATCCTGCTAGAGTTCTGAGG

Seq ID No 34

CCTCAGAACTCTAGCAGGATCCACTGCTGG

Seq ID No 35 DNA sequence of #50391

CCAGCAGTGGCTCTTCCTGCTTCTGCAGGATC

Seq ID No 36 DNA sequence of #50392

GATCCTGCAGAAGCAGGAAGAGCCACTGCTGG

Seq. ID No37 Amino acid sequence of (C3d)3 expressed in baculovirus/Sf9

1	Met	Ala	Leu	Trp	Met	Arg	Leu	Leu	Pro	Leu
10	Leu	Ala	Leu	Leu	Ala	Leu	Trp	Ala	Pro	Ala
21	Pro	Thr	Arg	Ala	Gly	Ser	Arg	Ser	Thr	Pro
31	Ala	Gly	Ser	Gly	Glu	Gln	Asn	Met	Ile	Gly
41	Met	Thr	Pro	Thr	Val	Ile	Ala	Val	His	Tyr
51	Leu	Asp	Gln	Thr	Glu	Gln	Trp	Glu	Lys	Phe
61	Gly	Ile	Glu	Lys	Arg	Gln	Glu	Ala	Leu	Glu
71	Leu	Ile	Lys	Lys	Gly	Tyr	Thr	Gln	Gln	Leu
81	Ala	Phe	Lys	Gln	Pro	Ser	Ser	Ala	Tyr	Ala

91 Ala Phe Asn Asn Arg Pro Pro Ser Thr Trp  
101 Leu Thr Ala Tyr Val Val Lys Val Phe Ser  
111 Leu Ala Ala Gln Leu Ile Ala Ile Asp Ser  
121 His Val Leu Cys Gly Ala Val Lys Trp Leu  
131 Ile Leu Glu Lys Gln Lys Pro Asp Gly Val  
141 Phe Gln Glu Asp Gly Pro Val Ile His Gln  
151 Glu Met Ile Gly Gly Phe Arg Asn Ala Lys  
161 Glu Ala Asp Val Ser Leu Thr Ala Phe Val  
171 Leu Ile Ala Leu Gln Glu Ala Arg Asp Ile  
181 Cys Glu Gly Gln Val Asn Ser Leu Pro Gly  
191 Ser Ile Asn Lys Ala Gly Glu Tyr Ile Glu  
201 Ala Ser Tyr Met Asn Leu Gln Arg Pro Tyr  
211 Thr Val Ala Ile Ala Gly Tyr Ala Leu Ala  
221 Leu Met Asn Lys Leu Glu Glu Pro Tyr Leu  
231 Gly Lys Phe Leu Asn Thr Ala Lys Asp Arg  
241 Asn Arg Trp Glu Glu Pro Asp Gln Gln Leu  
251 Tyr Asn Val Glu Ala Thr Ser Tyr Ala Leu  
261 Leu Ala Leu Leu Leu Leu Lys Asp Phe Asp  
271 Ser Val Pro Pro Val Val Arg Trp Leu Asn  
281 Glu Gln Arg Tyr Tyr Gly Gly Gly Tyr Gly  
291 Ser Thr Gln Ala Thr Phe Met Val Phe Gln  
301 Ala Leu Ala Gln Tyr Gln Thr Asp Val Pro  
311 Asp His Asp Leu Asn Met Asp Val Ser Phe  
312 His Leu Pro Ser Ser Gly Ser Glu Glu Phe

Seq ID No 38 Oligos for modification of bacterial vector pBroc413

TAT GAG ATC TCC CGG GGG ATC CTA GCG GCC GCT GCA

Seq ID No 39 Oligos for modification of bacterial vector pBroc413

GCG GCC GCT AGG ATC CCC CGG GAG ATC TCA

Seq ID No 40 Peptide for trifunctional linker

Ala Lys Ala Lys Ala Lys

Seq ID no 41)

CCACCCGAGCCGGTACCAGATCTA

Seq ID no 42

GGTAGATCTGGTACCGGCTCGGGTGG

Seq ID No 43:

CGAGCCATATGGGTACCACCCCAGC

Seq ID No 44:)

GGTTAGCAGGTACCGGAACC (Seq ID dd)

Seq ID 45 Mutagenic oligo giving addition of C-terminal cysteine

GGATCTGAAGAGTTCTGCTGAGGATCCTATTAAAGC

Seq ID 46 Mutagenic oligo giving addition of C-terminal cysteine

GCTTTAATAGGATCCTCAGCAGAACTCTTCAGATCC